











ANSWER KEY

Exercises

- A. 1. a
- 2. b
- 3. c
- 4. b
- 5. a

B. 1. intrusion

C. 1. True

2. worm

2. True

- 3. cyber security 3. True
- 4. cybercriminals 5. virus 4. True
 - False

- D. 1. d
- 2. c
- 3. e
- 4. a
- 5. b
- E. 1. Computer Ethics are the set of rules to ensure safe use of computers.
 - 2. It is a state in which one is not observed or disturbed by other people.
 - A computer virus is a type of malicious software that, when executed, replicates itself by modifying other computer programs and inserting its own code. When this replication succeeds, the affected areas are then said to be "infected" with a computer virus.
 - A few cyber security tips are:
 - Use strong passwords.
 - Secure your computer:
 - Activate your firewall.
 - b. Use antivirus.
 - Block spyware attacks.
 - iii. Be social media savvy.
 - Secure your mobile devices.
 - v. Uninstall unnecessary software.
 - vi. Maintain backups.
 - vii. Check security settings.
 - 5. Cyberterrorism is the use of the Internet to conduct violent acts that result in, or threaten, loss of life or significant bodily harm, in order to achieve political gains through intimidation.
- F. 1. Cybersecurity is the protection of computer systems from theft or damage to their hardware, software or electronic data as well as from disruption or misdirection of the services they provide.

Some of the advantages of cyber securities are as follows:

- Improved security of cyberspace.
- ii. Increase in cyber defense.
- iii. Increase in cyber speed.
- iv. Protects company data and information.
- Protects systems and computers against viruses, worms and malware etc.
- vi. Protects individual's private information.
- vii. Protects network and resources.
- viii. Fights against computer hackers and identity theft.

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2. Cyber law covers almost all aspects of transactions and activities on and concerning the Internet, the World Wide Web and Cyberspace.

Due to the anonymous nature of the Internet, it is possible to engage into a variety of criminal activities with impunity. People have been grossly misusing this aspect of the Internet to perpetuate criminal activities in cyberspace. Hence, the abuse of computer has also given birth of new age crime that is addressed by the Information Technology Act, 2000 (IT ACT 2000).

- 3. Some common types of cybercrimes are:
 - Phishing: Using fake email messages to get the personal information from the Internet users.
 - ii. Identity theft: Misusing personal information of the Internet user for performing financial scams.
 - iii. Hate crimes: Spreading hate and inciting terrorism.















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scams.

- iii. Hate crimes: Spreading hate and inciting terrorism.
- Malware: Targets user's financial information by installing key loggers onto the user's computer.
- v. Scams: Fooling users by attractive fake offers and tricking them into sending over money.
- 4. There are mainly five types of software piracy. These are:
 - Counterfeiting: This type of piracy includes illegal duplication, distribution and/or sale
 of copyrighted material. In the case of packaged software, it is common to find counterfeit
 copies of the compact discs incorporating the software programs, manuals, license
 agreements and security features etc.
 - Internet Piracy: This occurs when software is downloaded from the Internet. The same purchasing rules apply to online software purchase similar to those bought in compact disc format.
 - iii. End-User Piracy: This occurs when an individual reproduces copies of software without authorization. These include:
 - ✓ Using one licensed copy to install a program on multiple computers.
 - ✓ Copying discs for installation and distribution.
 - ✓ Swapping discs in or outside the workplace.
 - iv. Client-Server Overuse: This occurs when too many users on a network are using a central copy of a program at the same time. If you have a LAN and a program installed on the server for several number of people to use, you have to be sure that your license entitles you to do so. If you have more users than allowed by the license, that's 'overuse'.
 - v. Pre-Installed Software Piracy: This occurs when a business sells new computers with illegal copies of pre-installed software on the hard disks to make the purchase of the machines more attractive.

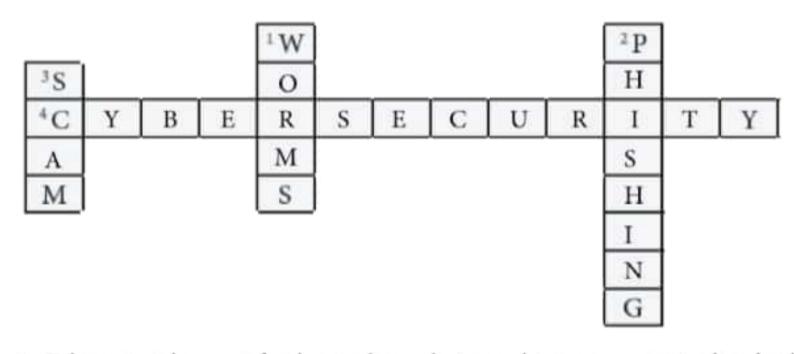
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Brain Teaser

A.



- B. 1. Ethics are the set of rules and regulations that govern an individual or a group, the acceptable behaviour while using a computer (Internet).
 - Worms: A computer worm is a standalone malware computer program that replicates itself in order to spread to other computers. Often, it uses a computer network to spread itself, relying on security failures on the target computer to access it.
 - 3. Malware: Targets user's financial information by installing keyloggers onto the user's computer.















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